

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/052234

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/085

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 862 169 A (FUJITSU LIMITED) 2 September 1998 (1998-09-02) column 8, line 6 - column 25, line 25; figures 1A,1B,4A,4B,7A-13B	1-17
A	US 6 442 111 B1 (TAKAHASHI KAZUO ET AL) 27 August 2002 (2002-08-27) column 25, line 26 - column 30, line 34; figure 15 column 54, line 31 - column 56, line 40; figures 49,50	1-17
A	DE 102 07 119 A1 (FUNAI ELECTRIC CO., LTD) 29 August 2002 (2002-08-29) the whole document	1-17
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex

* Special categories of cited documents

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

A document member of the same patent family

Date of the actual completion of the international search

19 April 2005

Date of mailing of the international search report

26/04/2005

Name and mailing address of the ISA

European Patent Office, P B 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Hermann, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/052234

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	<p>DE 195 36 190 A1 (FUJITSU LTD., KAWASAKI, KANAGAWA, JP; FUJITSU LTD) 4 April 1996 (1996-04-04) page 8, line 32 - page 10, line 13; figures 1,5,7A-11</p> <p>-----</p>	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/052234

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0862169	A	02-09-1998	JP 9288830 A 04-11-1997
			EP 0862169 A1 02-09-1998
			EP 0867871 A1 30-09-1998
			EP 0867872 A1 30-09-1998
			CN 1163450 A ,C 29-10-1997
			DE 69606556 D1 09-03-2000
			DE 69606556 T2 24-08-2000
			DE 69606557 D1 09-03-2000
			DE 69606557 T2 24-08-2000
			DE 69607458 D1 04-05-2000
			DE 69607458 T2 14-09-2000
			DE 69614135 D1 30-08-2001
			DE 69614135 T2 21-03-2002
			EP 0803864 A2 29-10-1997
			US 5892742 A 06-04-1999
			US 5901121 A 04-05-1999
			US 5896354 A 20-04-1999
			US 5933397 A 03-08-1999
US 6442111	B1	27-08-2002	JP 3516598 B2 05-04-2004
			JP 2000132844 A 12-05-2000
DE 10207119	A1	29-08-2002	JP 2002245642 A 30-08-2002
			US 2002163864 A1 07-11-2002
DE 19536190	A1	04-04-1996	JP 3515645 B2 05-04-2004
			JP 8153332 A 11-06-1996
			US 5623464 A 22-04-1997